

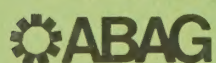


San Francisco Bay Area **Environmental Management Plan**

Water Quality Management Plan Implementation Report

September 1979

ASSOCIATION OF BAY AREA GOVERNMENTS

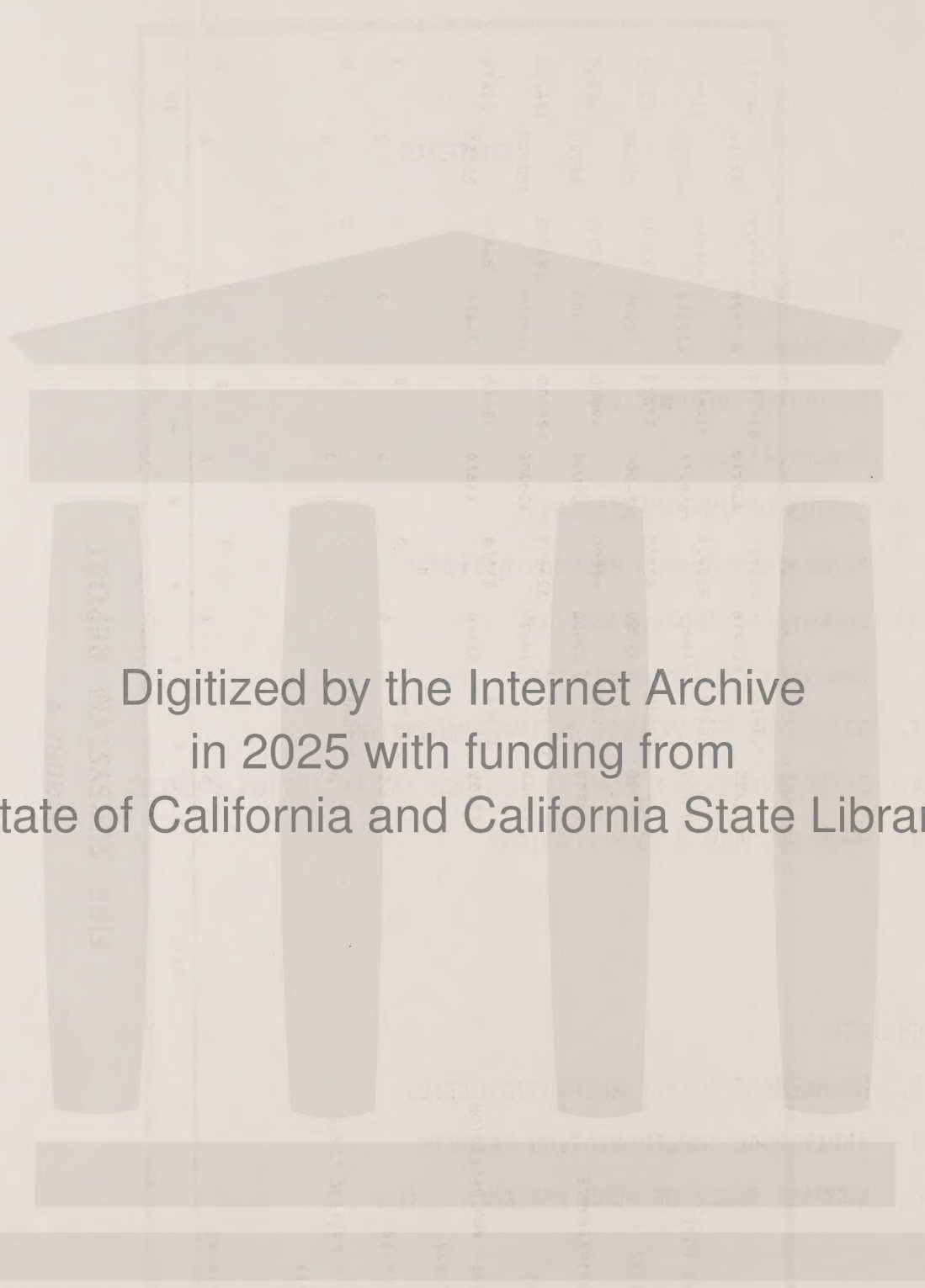


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SECTION I

INTRODUCTION

PURPOSE

This is the first semi-annual plan implementation progress report. Its purpose is to present an evaluation of the implementation and effectiveness of the San Francisco Bay Area Water Quality Management Plan (WQMP).

The WQMP consists of the water quality portions of the Environmental Management Plan (EMP) that were conditionally certified by the State Water Resources Control Board (SWRCB) in its Resolution No. 78-56 on September 25, 1978. The WQMP was conditionally approved by the Environmental Protection Agency (EPA) on February 14, 1979. The following actions were adopted in the approved WQMP:

Water Quality Element Actions: 1.1, 1.2, 1.3, 1.4, 1.5, 3.1, 3.2, 3.3, 3.4, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 8.1, 8.2, 9.1, 9.2, 9.3, 9.4, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, and the 20-year project list;

Water Supply Management Element Actions: 1.1, 3.1, 3.2, and 3.3;

Solid Waste Management Element Actions: 4.1, 11.3, 12.1, 12.2, 12.5, 13.4, 13.6, 15.1, 15.2, 16.1, 16.2, 16.3, and 16.4;

Plan Implementation Element Actions: 2.1, 2.2, 2.3, 2.12, and 3.1.

The status of each of these actions is reviewed in this report. In addition, each of the eight county surface runoff plans referenced in Water Quality Action 8.1 is reviewed for progress in implementation.

This report identifies which actions are being successfully carried out and which are not. Another purpose of this and subsequent implementation progress reports is to indicate where additional measures or actions need to be applied to the WQMP. In this manner, EPA can be apprised of the progress being achieved and additional progress needed by local governments, and State and Federal agencies.

SECURING INFORMATION

ABAG requested the assistance of counties and the SWRCB in developing the information for this report. A basic information sheet was prepared for each action in the WQMP and individual county plans. Each sheet

lists the action, the responsible implementing agency, the schedule for implementation identified, a description and evaluation of implementation to date, and a discussion of financing arrangements.

County staff, except in Napa and Sonoma counties, completed the information sheets for their surface runoff plans. Since Napa and Sonoma counties are no longer participating in the 208 planning program, ABAG interviewed county staff and prepared the assessment for those county plans. Additionally, the SWRCB did not respond to requests for information on plan implementation by state agencies. ABAG prepared an assessment of State level implementation using information supplied by the staff of the San Francisco Bay Regional Water Quality Control Board (RWQCB) and information gathered from other publications. All remaining plan actions were assessed by ABAG.

The following classification scheme was used for assessing the status of various plan actions:

- o Completed or ongoing - action has been completed or substantially implemented;
- o Future - strong evidence that implementation will be completed in the near future;
- o Partial - action is partially implemented; in the case of an ongoing action, where service levels have been reduced, but not eliminated.
- o No implementation - implementation has not taken place and is not scheduled to, or in the case of an ongoing action, where services have been eliminated.
- o Unreported - status of implementation unknown or insufficient information available for assessment.

ORGANIZATION

This report is organized in the following manner. Section II presents the status of plan implementation with a list of management agencies, summary table of implementation and an analysis of implementation. Section III describes financing arrangements and possible constraints on implementation. Section IV analyzes the effectiveness of the plan in controlling pollution sources. Problems and possible solutions are discussed in Section V.

SECTION II

STATUS OF IMPLEMENTATION

MANAGEMENT AGENCY RESPONSIBILITIES

A list of management agencies is identified for each action in the WQMP. These agencies are identified as having primary responsibility for carrying out the actions of the Plan. A summary of these agencies is given in Appendix A.

This list, in conjunction with a status report on ABAG's progress in securing management agency agreements, was submitted several months ago to the SWRCB and EPA. The SWRCB at that time had not formally designated management agencies to carry out the plan because ABAG had not completed the negotiations of these agreements. This process has now been finished, and it has been ABAG's hope that the SWRCB would formally designate management agencies. To date, this has not taken place. Formal designation of management agencies would lead to full certification of the plan by the State and unconditional approval by EPA. This would then provide further incentive for plan implementation--especially to those local governments which have not undertaken their full surface runoff control responsibilities.

With regard to implementation commitments, ABAG did not seek agreements from agencies which have completed implementation or have ongoing programs which would provide implementation. The only Federal agency identified in the EMP, other than EPA, is the U.S. Coast Guard. This agency has completed one action, reevaluation of the need for a radar station in Carquinez Strait, and is implementing the second action, a public information program on vessel waste requirements.

To date ABAG has not received any implementation resolutions from State agencies, although the State certification of the EMP clearly implies such a commitment. On May 2nd and July 27th of this year, ABAG requested from the SWRCB information on EMP implementation by State agencies. We have not received a response to our inquiries.

SUMMARY OF IMPLEMENTATION

The individual implementation status reports are included in Appendix B. These reports are organized first by general WQMP actions and then by each county plan. A summary of these reports is presented in Appendix C.

The following actions highlight successful implementation of the plan:

Water Supply Actions

- o Policy 1 - "Provide a Safe and Reliable Water Supply to All Citizens at a Minimum Monetary and Environmental Cost." The only action under this policy is to establish a committee of representatives from all major water agencies in the Bay Area. This has been done. The committee has met several times and is undertaking several projects, among which are an investigation of interagency water transfers, drought contingency planning, review of State Department of Water Resource Studies, and safety considerations of water supplies.
- o Policy 3 - "Encourage Safe and Cost-Effective Wastewater Reclamation." The first phase of the Regional Reclamation Study has been completed by the East Bay Municipal Utilities District, CH2M/Hill, other consultants, and with the participation of State and regional agencies. The conclusion of the first phase of study is that wastewater reclamation, combining the flows of major east and south-bay dischargers, could be economically competitive with developing a major new water supply in the State. Principal uses for the reclaimed water could be for irrigation in the Central Valley or saline water repulsion in the Delta. The second phase of this study is investigating the details associated with the principal uses.

Water Quality Actions

- o Policy 1 - "Improve Understanding of Bay-Delta Estuarine System and the Fate and Effects of Pollutants Entering It." The actions under this policy are being implemented largely by the SWRCB and the RWQCB, which have proposed that a data collection and problem assessment program for the Bay be developed by mid-1980. The objective of this program, for which financing will be provided by State monies and EPA, will be to establish coordination among research and monitoring programs in the region. This condition will assist in better understanding the impacts on the Bay-Delta system from storm water runoff, agricultural discharges, delta outflows, and water quality improvements resulting from more stringent point source controls. ABAG will participate in the program to ensure its integration with continued water quality planning for the Bay.
- o Policy 2 - "Establish Continuing Planning Process for Water Quality Management." ABAG, in cooperation with the RWQCB, developed a work plan for continued 208 planning for the Bay. It has received funding from the EPA, and work is scheduled to continue into mid-1980. Many of the tasks involve a continuation of the surface runoff planning efforts. Others center on hazardous waste disposal, determination of municipal wastewater collection and treatment system needs, recreational benefits of water quality improvements, and septic tank problems.

- o Policy 3 - "Facilitate the Re-establishment of Recreational and Commercial Shellfish Harvesting in the Bay as Allowed by Water Quality." The State Department of Health and the State Department of Fish and Game, working with the RWQCB, are beginning site-specific studies in the San Francisco Bay with the objective of determining if and under what conditions shellfish can be safely harvested for human consumption. This task is expected to lead to the opening up of shellfish beds for recreational and commercial harvesting throughout the Bay.
- o Policy 4 - "Ensure that Water Pollution Facilities or Measures Effectively Protect Water Quality." The actions under this policy have to do with water quality and treatment plant discharge monitoring. They are continuing activities under the auspices of the RWQCB.
- o Policy 5 - "Provide Facilities Needed for Municipal Sewerage Service and Water Quality Protection." An update of the 20-year project list for municipal wastewater collection and treatment system needs has been adopted by the ABAG Executive Board in September. Future sewerage facilities throughout the Bay Area are to be planned in accordance with this list, and successive updates.
- o Policy 6 - "Encourage Consolidation of Treatment Facilities and Discharge of Wastewater to Well-Mixed Receiving Waters Where Economically Justified and Environmentally Desirable." The update of the 20-year project list, referred to above, incorporates this policy. Several wastewater projects have been deleted from the list because they are being combined with other facilities.
- o Policy 7 - "Accelerate Programs Toward Reclamation and Reuse of Wastewater." A description of implementation of this policy is in the "Water Supply" chapter of this report.
- o Policy 8 - "Establish a Program of Surface Runoff Controls that Emphasize Low Cost Measures to Reduce the Pollutant Load from this Source." The surface runoff plan, completed by ABAG and the region's counties, lies at the heart of the water quality management plan. Implementation of ABAG's portion of the plan will take place through the continuing planning process. This involves coordination of county efforts to produce a regional plan, continuation of modeling and monitoring efforts to develop a better understanding of surface runoff problems, studying the existing legal framework for surface runoff control and proposing amendments to laws and ordinances, and providing technical assistance to county staffs in their plan development efforts.

As for the counties, implementation of individual county plan will also take place during the continuing planning process. However, much has already been completed. Among the highlights are these:

- * Implementation of demonstration projects on street sweeping in Castro Valley and San Jose;
 - * Preparation of grading and creekside ordinances in Solano County and a watercourse ordinance in Alameda County;
 - * Improvements in consideration of "best management practices" for water quality purposes by agencies in Sonoma County;
 - * Increased monitoring of reservoirs, surface and ground waters in Santa Clara County;
 - * Expansion of erosion control efforts in rural portions of San Mateo County;
 - * Addition of surface-runoff related water quality considerations to the project review process in Napa County;
 - * Re-evaluation of agricultural practices as they affect surface runoff water quality in Solano County; Development of a state-sponsored program in oil recycling and funding for litter control.
- o Policy 9- "Provide Facilities Needed for Industrial Wastewater Treatment and Disposal and Water Quality Protection." The actions under this policy concern direct industrial discharge and industrial pretreatment of liquid wastes, both of which are ongoing activities.
 - o Policy 10 - "Reduce Sewage Pollution from Vessels, Including Houseboats, in the Bay-Delta System." All vessel waste actions in the EMP are the responsibility of the SWRCB, the RWQCB, and the State Department of Navigation and Ocean Development. Implementation by the State has been promised by the SWRCB through certification of the WQMP. Public marina and harbor owners have agreed to accept responsibility for installation, where not already completed, of pump-out and toilet facilities. The Coast Guard has contributed its share by providing information to the boating public on marine sanitation devices.
 - o Policy 11 - "Improve Wastewater Disposal Practices in Unsewered Areas." The plan's actions to establish regionwide standards for on-site disposal systems and to begin a program of on-site system inspection and maintenance have been adopted in a new policy by the RWQCB. This action should have a major impact on the region's problems with on-site systems. Research on system alternatives and improvements continues at the State level.

- o Policy 12 - "Monitor Effectiveness of Existing Arrangements for Preventing and Dealing with Oil and Chemical Spills in Bay Area." In implementing one of this policy's actions, EPA has promulgated new regulations dealing with spills of hazardous substances. The Coast Guard has recently completed a report finding that expanded radar coverage in the Carquinez Straits is not warranted at this time. County Offices of Emergency Services and local fire departments have cooperated in enhancing spill containment and cleanup capabilities. Also the U.S. Congress is considering legislation to increase liability of oil spillers, and the Federal Department of Transportation has finalized regulations which improve requirements for tanker construction and navigational aids. Finally, the plan's action to undertake a study of potentially hazardous inland spills has not been completed because of EPA's decision not to fund the study during the continuing planning period.

Solid Waste Actions

- o Policy 4 - "All Solid Waste Disposal Sites must be Situated, Designed, Operated, and Eventually Closed Down in a Proper Manner to Provide Protection to the Surface and Ground Water Quality and the Natural Environment as well as Protection of Public Health and Safety." The only water quality action under this policy concerns the adoption and updating of waste discharge requirements by the RWQCB. As one of the RWQCB's ongoing responsibilities, this task has nearly been completed.
- o Policy 13 - "Regulations Should Ensure Safe and Proper Handling of Hazardous Wastes." An action to improve procedures for preventing and handling hazardous waste spills has been implemented by Alameda County and other jurisdictions. Another action calls for the establishment of regulations for on-site disposal of hazardous wastes; these regulations are now in the proposal stage.
- o Policy 15 - "The Regional Wastewater Solids Study Recommendations, when Completed, Should be Integrated into Local and Regional Solid Waste Management Plans." Under this policy, the Regional Wastewater Solids Management Plan has been completed and is being approved by the relevant management agencies. ABAG will assist the counties in integrating the WSS recommendations with county plans.
- o Policy 16 - "Facilities Planning, Design and Construction for Wastewater Solids Management Should be Accomplished by Local Wastewater Management Agencies in Conformance with the County Solid Waste Management Plans, the Environmental Management Plan (208 Plan), and Federal and State Requirements." The draft facilities plans under the Wastewater Solids Study have been completed and are now being reviewed by regulatory agencies. Facility design and implementation is expected to take place according to the WQMP schedule.

Plan Implementation Actions

- o Policy 3 - "Plan Implementation Should be Ensured Through the Timely and Appropriate Completion of Management Agreements as Required by Federal Regulations." Management agency agreements were sought and have been obtained from almost all local governments in the Bay Area.

ANALYSIS OF IMLEMENTATION

Table 1 summarizes implementation actions and includes items in the general portions of the plan developed by ABAG and the surface runoff portions developed by the region's counties.

As Table 1 shows, implementation is taking place or is scheduled to take place for a majority of the plan's actions - over 60 percent. When combined with partially implemented actions, the percentage rises to around 80 percent. On the other hand, about 15 percent of the actions are not being implemented. This table does not distinguish between significant action and desireable support activity. In many cases it is difficult to categorize the value or water quality benefit of an action. It can be generally stated that actions with direct water quality impact can be found in all four major implementation categories as can actions with indirect impacts.

An assessment of management agency progress most easily can be made through analysis of the actions which are not being carried out - that is, the "No Implementation" column. For the general portions of the 208 plan developed by ABAG, four of the nine actions not being undertaken are the responsibility of the RWQCB, one of them is to be implemented by ABAG, one of them by the State Water Resources Control Board, and the remaining three by the California Legislature. In the county surface runoff plans, 31 total actions are not being carried out; virtually all of these are assigned to various local governments in the region. However, significant progress is being made in implementing 200 other WQMP actions for the Bay Area. Adjustments in plan schedules may have to be made when the plan is updated.

TABLE 1
ANALYSIS OF IMPLEMENTATION

Plan Elements	Actions Completed/ Ongoing	Implementation			Unreported
		Future	Partial	None	
General Plan Portions	32	13	6	9	1
Alameda Co.	7	3	1	1	0
Contra Costa Co.	13	5	4	7	0
Marin Co.	4	1	7	0	0
Napa Co.	11	5	1	1	0
San Mateo Co.	17	9	5	5	3
Santa Clara Co.	15	1	5	1	3
Solano Co.	10	10	3	4	0
Sonoma Co.	1	1	11	12	1
TOTAL	110	48	43	40	8

SECTION III

STATUS OF FINANCING FOR IMPLEMENTATION

Federal and State grants for wastewater management projects have continued to be awarded into the Bay Area, and most local governments have also been contributing their share - not only for construction of wastewater treatment facilities and implementation of the county surface runoff plans, but for the continuing planning effort as well. Two important exceptions to this generality are discussed.

The first of these has to do with the availability of continuing Section 208 planning grants. Designated agencies have already endured funding cutbacks and delays, and as the program enters FY 1979-1980, the future of this money appears increasingly uncertain. ABAG believes that the institutional conflicts underlying the Section 208 funding situation must be resolved so that this important planning work can proceed smoothly. Significant progress in resolving this problem at the State level has been achieved with the third draft of the State/EPA Agreement for 1979-80.

The other exception concerns funding cut-backs suffered by local governments in the past 14 months. Street sweeping, litter control, and other city and county programs affecting the quality of surface runoff fell victim to post Proposition 13 budget-cutting. Many jurisdictions were able to maintain the service levels reached before last June, but others could not. Before local governments can be expected to make major financial commitments to implement a number of surface runoff control measures, the effectiveness and cost of those measures must be demonstrated. This is a major objective of ABAG's 1979-80 work program.

SECTION IV

EFFECTIVENESS OF PLAN IN CONTROLLING POLLUTION SOURCES

Plan effectiveness can be measured by several criteria. One criterion is the extent, or percentage, of plan actions implemented to date. In the WQMP, various plan actions were developed to include all feasible measures to effectively control specific pollution problems. Thus, the extent of plan implementation can be used as a yardstick for the projected control of pollution problems in the Bay Area. Control of the majority of the pollution sources would theoretically be brought about by implementation of all the plan actions.

Table 2 reviews the implementation status for major pollutant sources identified in the EMP. All of the certified WQMP actions relating to industrial wastewater and water supply concerns have been implemented or are ongoing. Over half of the plan actions relating to municipal wastewater control measures, wastewater disposal in unsewered areas and solid waste concerns are ongoing or have been completed. Control measures relating to vessel wastes, oil and chemical spills and general water quality concerns have generally been either not implemented or only partially implemented. These last actions are new to the region and it can be surmised that implementation will take longer than for actions closely related to ongoing programs.

Table 3 reviews the implementation status for surface runoff pollution and is organized by categories of control measures. In spite of funding delays or restrictions, a sizeable number of the plan actions have been completed or are ongoing, particularly those measures dealing with stormwater collection systems, littering, street repair, septic tank operations, agricultural/silvicultural practices, and treatment and storage of runoff. As more of these measures become implemented, improvement of surface water quality is anticipated.

A second criterion of plan effectiveness, which should follow implementation, is the actual improvement in water quality. This is obtained through monitoring data from identified problem areas, application of control measures and subsequent reduction in pollution parameters. This is a more definitive measure of plan effectiveness, but very costly to obtain on a large scale. Unlike for point source wastewater treatment processes, the impact of non-point source control measures can extend over large areas and is difficult to quantify. Thus, for each application of a non-point source control measure, the reliability of baseline as well as subsequent monitoring data and the treatment effectiveness, must be separately established. This could entail major research or demonstration projects for every jurisdiction and significant expenditures. In order to more effectively utilize available 208 funds EPA is moving away from extensive monitoring programs and is currently sponsoring a National Urban Runoff Program to provide technical performance data on non-point source control measures. These data can then be interpreted and applied to other areas with similar problems.

The WQMP was conditionally approved by EPA on February 14, 1979 and the SWRCB has not yet designated management agencies. This has led to an interim condition where jurisdictions have on good faith initiated their implementation plans but have not had appreciable time to gather monitoring data or effect a noticeable change in water quality. ABAG would desire, given adequate funding, to develop water quality data that reflects the plan implementation. Designation of management agencies at an early date would give impetus to the 208 program and establish a proper basis for evaluating the performance of those agencies.

TABLE 2

EFFECTIVENESS OF THE BAY AREA 208 PLAN IN MANAGING WATER POLLUTION,
GENERAL PORTIONS OF THE PLAN DEVELOPED BY ABAG

Control Measures Dealing With:	Total Number of Plan Actions	Actions Completed/ Ongoing	Future Im- plementation	Partial Im- plementation	No Imple- mentation	Unreported
1. Municipal Wastewater	3	67%	0	0	0	33%
2. Industrial Wastewater	4	100%	0	0	0	0
3. Vessel Wastes	7	29%	0	29%	43%	0
4. Wastewater Disposal in Unsewered Areas	6	83%	0	17%	0	0
5. Oil and Chemical Spills	8	25%	13%	13%	50%	0
6. Concerns Related to Water Supply	4	100%	0	0	0	0
7. Concerns Related to Solid Waste	13	54%	38%	8%	0	0
8. General Water Quality Con- cerns (Research, Data Collection, Continued Plan- ning, etc.)	15	27%	47%	7%	20%	0

TABLE 3

EFFECTIVENESS OF THE BAY AREA 208 PLAN IN MANAGING WATER POLLUTION,
SURFACE RUNOFF PORTIONS OF THE PLAN DEVELOPED BY EIGHT OF THE REGION'S COUNTIES

Control Measures Dealing With:	Number of County Plans with this Type of Measure	Total Number of Plan Actions*	Actions Completed/ Ongoing	Future Imple-mentation	Partial Imple-mentation	No Imple-mentation	Unreported
1. Street Sweeping	7	30	37%	3%	23%	37%	0
2. Controlling Use of Certain Chemicals	6	21	47%	10%	5%	33%	5%
3. Stormwater Collection Systems	5	26	54%	8%	31%	4%	4%
4. Littering	4	16	53%	6%	6%	35%	0
5. Dumping	5	15	40%	13%	13%	33%	0
6. Street Repair	2	3	67%	0	33%	0	0
7. Proper Operation of Septic Tanks	4	8	75%	13%	0	13%	0
8. Erosion Control	7	30	30%	30%	27%	10%	3%
9. Agricultural/ Silvicultural Practices	2	2	50%	0	50%	0	0
10. Runoff from Contaminated Areas	4	9	33%	33%	22%	11%	0
11. Treatment and Storage of Runoff	2	5	60%	0	20%	0	20%
12. Land Use Controls	6	12	33%	50%	8%	0	8%
13. Water Quality Monitoring/ Problem Identification	6	16	38%	13%	31%	6%	13%
14. Public Education/ Information	8	19	0	11%	42%	37%	11%
15. EIRs and Project Review	3	6	17%	67%	17%	0	0

TABLE 3. (Cont'd.)

EFFECTIVENESS OF THE BAY AREA 208 PLAN IN MANAGING WATER POLLUTION,
SURFACE RUNOFF PORTIONS OF THE PLAN DEVELOPED BY EIGHT OF THE REGION'S COUNTIES

Control Measures Dealing With:	Number of County Plans with this Type of Measure	Total Number of Plan Actions*	Actions Completed/ Ongoing	Future Implementation	Partial Implementation	No Implementation	Unreported
16. Administrative Structure and Procedures for Continued Planning	5	22	64%	23%	9%	5%	0
17. Surface Runoff in General and Actions not Otherwise Classifiable	5	12	33%	25%	15%	25%	0

* Many actions fall into more than one of the 17 categories.

SECTION V

PROBLEMS AND RECOMMENDATIONS

The water quality portion of the Environmental Management Plan represents distinct progress in solving water pollution problems in the Bay Area. Several actions, such as those correcting vessel waste and septic tank discharges, approach final solutions to specific problems, while other actions, such as the county surface runoff plans, are significant first steps in a complex and challenging situation. To improve the WQMP, scientific and engineering investigation is needed. The WQMP is a document appropriately matched to our understanding of water quality problems in the Bay Area.

The following specific problems relate to plan content or implementation. Each is presented with a discussion of possible solutions that may be further developed or implemented in the following months.

SWRCB Certification of the WQMP

The SWRCB conditionally certified the WQMP on September 25, 1978. The EPA subsequently approved the plan, with conditions incorporating the SWRCB's conditions, on February 14, 1979. Until these conditions are withdrawn, the status of the WQMP is equivocal and full implementation would be difficult to obtain. ABAG believes it has satisfied all plan conditions and is awaiting full certification by the SWRCB.

SWRCB Designation of Management Agencies

Federal regulations require the Governor, or his designee, to formally designate management agencies for the implementation of the WQMP. ABAG and many local jurisdictions are trying to achieve plan implementation. Formal SWRCB designation could provide substantial impetus and regulatory support to this end.

Although the SWRCB has had the WQMP since June 1978, and a separate list of management agencies since April 1979, they have not designated those agencies. If the 208 planning process is to succeed in California, we need the support of all levels of government. This includes timely designation of management agencies.

Implementation by SWRCB

A number of WQMP actions are to be implemented by the SWRCB and the RWQCB. Two major projects - restoration of shellfishing in the Bay and coordination of the aquatic monitoring and research programs - will be carried out by the State. In fact the shellfish program has begun. However, we have not found any indication that other plan actions would be carried out. These are actions 1.4, 1.5, 4.3, 10.1, 10.2, 10.3, 10.4, and 12.2. Our inquiries to the SWRCB about these actions have not

been answered. ABAG will request, at public hearings on the State/EPA agreement and through the A-95 review process, that implementation of these tasks be made a priority of the SWRCB.

Low Priority Perception of Surface Runoff Problems

A number of jurisdictions and citizens have questioned the need for surface runoff controls in the absence of gross evidence of problems in the Bay. With this questioning comes a perception that surface runoff control funding should be of low priority when compared to other social and governmental services.

Cause and effect evidence of surface runoff created problems is lacking for the Bay. However, there is no question that there are problems of unspecified origins, such as fish kills, diseased marine organisms, algae blooms and high bacterial counts. It has been demonstrated that the constituents of surface runoff can cause such problems. The connection, hopefully, could be conclusively established as a result of the aquatic habitat program in the 1979-80 workplan.

The effect of surface runoff on inland streams, lakes and reservoirs is better documented. The counties prepared problem statements listing these areas during the initial development of the EMP. It seems that these problem assessments must be updated and again, brought before the public. ABAG will allocate staff time to update this information, using among other resources, the records of the RWQCB, Department of Fish and Game, Department of Health, and county and RCD records. The ABAG public participation program will present this information to other agencies and the citizenry at large.

Lack of Local Funding

Local governments are simply unable to finance major new programs because of restraints on their ability to collect property tax revenues. Most of the county plans are based on low or no cost activities to reduce surface runoff pollution. In general, the more local money the control measure requires, the less likely that it will be implemented. Some jurisdictions have even been forced to cut back on existing programs such as street sweeping.

The solution to the Proposition 13 problem may hinge on the development of innovative financing techniques. ABAG's recent conference, "Paying for Environmental Management," took the first step by gathering many leading professionals in this field together to air the issues and attempt to obtain answers. More of these discussions will no doubt be conducted in the coming months. Continued support of surface runoff planning and implementation depends on the results.

Lack of Control Measure Performance Data

Most county surface runoff plans include various public works practices and ordinance improvements as best management practices. Typically, a county plan calls for the improvement of a specific public works

practice in order to benefit water quality. However, the water quality benefits of the existing level of practice are not demonstrated and there is no standard for judging the efficacy of any improvement. Improvements are not necessarily related to dollar expenditure, and even an improvement in the efficiency of a control measure may not result in a significant water quality benefit. Thus, there is no way to accurately evaluate the implementation or success of a control measure.

In recognition of this problem relating to a lack of performance information, EPA is sponsoring the National Urban Runoff Program. ABAG has proposed several projects for that program in 1980-81. During the current planning year, ABAG is reviewing all available literature and surveying public works practices and ordinances in the Bay Area. The product of this effort would be a handbook, presenting definitions and details of best management practices for this region. It is intended that this handbook would become a definitive guide to local agencies in the implementation of the surface runoff plans. The handbook would be developed with the assistance of the Water Quality Technical Advisory Committee and incorporated in the EMP.

Integration of Point Source and Non-point Source Programs

The municipal and industrial wastewater treatment programs are very well developed in California. In general, there is a defined relationship between water quality needs and waste load allocations. The relatively new non-point source program also is designed to respond to water quality needs. However, there is little coordination between the programs at this time. It would seem obvious that any one of several paths may be taken to achieve a specific water quality objective. At this time, the choice of paths, point or non-point source control, is not made through thoroughly integrated planning. Tradeoffs in implementation between programs have not been major components of the planning process. In part this is due to the fact that a specific benefit could be expected from a dollar expenditure in wastewater treatment but it was uncertain what expenditure or action would be needed to achieve a comparable benefit from non-point source control.

ABAG has proposed for the 1980-81 workplan that integration of the two programs be demonstrated for a major municipal discharger. Such a demonstration could validate the use of non-point source controls as equivalent alternatives in the Step 1 facilities planning process. Non-point source controls, particularly for urban runoff, could then become more established with greater opportunity for implementation.

Oil and Chemical Spills, Action 12.4

Water quality Action 12.4 reads "Develop local roadway and railbed spill containment and cleanup capability." Most counties, through their offices of emergency services, have local spill contingency plans. It was the intent of the action, as supported by the technical memoranda, to make these contingency plans responsive to water quality protection needs. Due to an error in wording, this intent is not part of the actions.

Recently, Alameda County prepared an excellent inland spill handling plan. This plan called for the discharge or washing of non-hazardous chemicals to the nearest storm sewer. ABAG commented that any chemical spill is likely to be a pollutant in surface waters. Alameda County revised their plan to provide containment, whenever possible, for all chemical spills. In order to achieve this objective in other counties, ABAG will consider amending Action 12.4 to include water quality protection as a goal.

APPENDIX A

MANAGEMENT AGENCY RESPONSIBILITIES

MANAGEMENT AGENCIES AND THEIR RESPONSIBILITIES

Agency and Responsibilities

ALAMEDA COUNTY

County - 3.2*, 5.1*, 8.1, 10.1, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.4 SW*,
13.6 SW*, 15.2 SW*

Cities

Alameda - 5.1*, 8.1, 10.4, 10.5, 12.4, 13.4 SW*
Albany - 5.1*, 8.1, 12.4, 13.4 SW*
Berkeley - 8.1, 10.4, 10.5, 12.4, 13.4 SW*
Emeryville - 8.1, 10.4, 10.5, 12.4, 13.4 SW*
Fremont - 8.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*, 12.4,
13.4 SW*
Hayward - 4.2*, 5.1*, 8.1, 9.4*, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 13.4 SW*
Livermore - 4.2*, 5.1*, 8.1, 9.4*, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 3.2 WS*, 13.4 SW*
Newark - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Oakland - 5.1*, 8.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 13.4 SW*
Piedmont - 8.1, 12.4, 13.4 SW*
Pleasanton - 4.2*, 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4,
13.4 SW*
San Leandro - 4.2*, 5.1*, 8.1, 9.4*, 10.4, 10.5, 11.1, 11.2*,
11.3*, 11.4*, 12.4, 3.2 SW*, 13.4 SW*
Union City - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

Special Districts

Alameda County Flood Control and Water Conservation District -
8.1
Alameda County Mosquito Abatement District - 8.1
Alameda County Resource Conservation District - 8.1
Castro Valley Fire Protection District - 12.4
Castro Valley Sanitary District - 4.2*, 5.1*
Dublin-San Ramon Services District - 4.2*, 5.1*, 9.4*, 12.4
East Bay Dischargers Authority - 4.2*, 5.1*, 9.4*, 3.2 WS*
East Bay Municipal Utility District - 4.2*, 5.1*, 9.4*, 3.2 WS*,
16.1 SW*, 16.3 SW*, 16.4 SW*
East Bay Regional Park District - 10.4, 10.5, 12.4
Eden Consolidated Fire Protection District - 12.4
Fairview Fire Protection District - 12.4
Livermore Amador Valley Water Management Agency - 5.1*, 3.2 WS*
Oro Loma Sanitary District - 4.2*, 9.4*
Union Sanitary District - 4.2*, 9.4*

SW = Solid Waste
WS = Water Supply
PI = Plan Implementation

Agency and Responsibilities

CONTRA COSTA COUNTY

County - 3.2*, 5.1*, 8.1, 10.1, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.6 SW*, 15.2 SW*

Cities

Antioch - 8.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*, 12.4,
13.4 SW*

Brentwood - 4.2*, 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4,
13.4 SW*

Clayton - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

Concord - 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

El Cerrito - 8.1, 12.4, 13.4 SW*

Hercules - 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

Lafayette - 8.1, 12.4, 13.4 SW*

Martinez - 8.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*, 12.4,
13.4 SW*

Moraga - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 13.4 SW*

Pinole - 4.2*, 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 13.4 SW*

Pittsburg - 8.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*, 12.4,
13.4 SW*

Pleasant Hill - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

Richmond - 4.2*, 5.1*, 8.1, 9.4*, 10.4, 10.5, 11.1, 11.2*, 11.3*,
11.4*, 12.4, 13.4 SW*

San Pablo - 8.1, 12.4, 13.4 SW*

Walnut Creek - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

Special Districts

Ambrose Recreation and Park District - 8.1*

Bethel Island Fire Protection District - 12.4

Byron-Bethany Irrigation District - 8.1*

Byron Sanitary District - 4.2*

Central Contra Costa Sanitary District - 4.2*, 5.1*, 9.4*,
16.1 SW*, 16.3 SW*, 16.4 SW*

Contra Costa County Resource Conservation District - 8.1*

Contra Costa County Sanitation District No. 5 - 5.1*

Contra Costa County Sanitation District 7A and 7B - 4.2*, 5.1*,
9.4*, 3.2 WS*

Contra Costa County Sanitation District No. 15 - 4.2*, 5.1*

Contra Costa County Sanitation District No. 19 - 4.2*, 5.1*

Contra Costa County Water District - 5.1*, 8.1*

Contra Costa Fire Protection District - 12.4

County Service Area R-6 - 8.1*

County Service Area R-7 - 8.1*

County Service Area R-8 - 8.1*

Crockett-Carquinez Fire Protection District - 12.4

Crockett-Valona Sanitary District - 4.2*, 9.4*

Danville Fire Protection District - 12.4

Agency and Responsibilities

CONTRA COSTA COUNTY (Cont'd.)

Dublin-San Ramon Services District - 4.2*, 9.4*
Eastern Contra Costa Fire Protection District - 12.4
East Contra Costa Irrigation District - 8.1*
Kensington Fire Protection District - 12.4
Moraga Fire Protection District - 12.4
Moraga Park and Recreation Authority - 8.1*
Mt. View Sanitary District - 4.2*, 5.1*
Oakley County Water District - 8.1*
Oakley Fire Protection District - 12.4
Oakley Sanitary District - 4.2*, 5.1*
Orinda Fire Protection District - 12.4
Pinole Fire Protection District - 12.4
Pleasant Hill Recreation and Park District - 8.1*
Port Costa Sanitary District - 4.2*
Riverview Fire Protection District - 12.4
Rodeo Fire Protection District - 12.4
Rodeo Sanitary District - 4.2*, 5.1*
San Pablo Sanitary District - 4.2*, 9.4*
San Ramon Fire Protection District - 12.4
West Contra Costa Sanitary District - 5.1*, 3.2 WS*
West County Agency Joint Powers Authority - 4.2*, 5.1*, 9.4*
West County Fire Protection District - 12.4

MARIN COUNTY

County - 3.2*, 5.1*, 8.1, 10.1, 10.4, 10.5, 11.1, 11.2*,
11.3*, 11.4*, 12.4, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*,
13.4 SW*, 13.6 SW*, 15.2 SW*

Cities

Belvedere - 8.1, 12.4, 13.4 SW*
Corte Madera - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Fairfax - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Larkspur - 8.1, 12.4, 13.4 SW*
Mill Valley - 4.2*, 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 3.2 WS*, 13.4 SW*
Novato - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Ross - 8.1, 12.4, 13.4 SW*
San Anselmo - 8.1, 12.4, 13.4 SW*
San Rafael - 8.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*, 12.4,
13.4 SW*
Sausalito - 5.1*, 8.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 13.4 SW*
Tiburon - 8.1, 13.4 SW*

Agency and Responsibilities

MARIN COUNTY (Cont'd.)

Special Districts

Alto-Richardson Bay Fire Protection District - 12.4
Bolinas Community Public Utility District - 4.2*, 5.1*, 8.1
County Service Area No. 13 - 12.4
County Service Area No. 19 - 12.4
Homestead Valley Sanitary District - 5.1*
Kentfield Fire Protection District - 12.4
Las Gallinas Valley Sanitary District - 4.2*, 5.1*, 3.2 WS*
Marin County Mosquito Abatement District - 8.1
Marin County Parks, Recreation and Open Space District - 8.1
Marin County Sanitation District No. 1 - 4.2*, 5.1*, 9.4*
Marin County Sanitation District No. 5 - 4.2*
Marin County Water District No. 1 - 5.1*, 3.2 WS*
Marin Municipal Water District - 5.1*, 8.1, 3.2 WS*
Marinwood Community Services District - 12.4
North Marin County Water District - 4.2*, 5.1*, 8.1
Novato Fire Protection District - 12.4
Novato Sanitary District - 4.2*, 5.1*
Richardson Bay Sanitary District - 4.2*, 5.1*
San Rafael Sanitary District - 4.2*, 9.4*
Sausalito-Marín City Sanitary District - 4.2*
Sleepy Hollow Fire Protection District - 12.4
Stinson Beach County Water District - 5.1*, 8.1
Tamalpais Fire Protection District - 12.4
Tiburon Fire Protection District - 12.4

NAPA COUNTY

County - 3.2*, 5.1*, 8.1, 10.1, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.4 SW*, 13.6 SW*,
15.2 SW*

Cities

Calistoga - 4.2*, 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 3.2 WS*,
13.4 SW*
Napa - 8.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
St. Helena - 4.2*, 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4,
13.4 SW*
Yountville - 4.2*, 8.1, 12.4, 13.4 SW*

Special Districts

American Canyon County Water District - 4.2*, 5.1*
American Canyon Fire Protection District - 12.4
Carneros Water District - 5.1*
Napa County Resource Conservation District - 8.1
Napa County Sanitation District - 4.2*, 5.1*, 9.4*

Agency and Responsibilities

SAN FRANCISCO

City and County - 3.2*, 4.2*, 5.1*, 9.4*, 10.1, 10.4, 10.5, 12.4, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.4 SW*, 13.6 SW*, 15.2 SW*, 16.1 SW*, 16.3 SW*, 16.4 SW*

San Francisco International Airport - 4.2*, 5.1*, 3.2 WS*

Port of San Francisco - 5.1*

SAN MATEO COUNTY

County - 3.2*, 5.1*, 8.1, 10.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.4 SW*, 13.6 SW*, 15.2 SW*

Cities

Atherton - 8.1, 12.4, 13.4 SW*

Belmont - 4.2*, 8.1, 9.4*, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

Brisbane - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

Burlingame - 4.2*, 5.1*, 8.1, 12.4, 13.4 SW*

Colma - 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 13.4 SW*

Daly City - 8.1, 12.4, 13.4 SW*

Foster City - 5.1*, 8.1, 12.4, 3.2 WS*, 13.4 SW*

Half Moon Bay - 4.2*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 13.4 SW*

Hillsborough - 8.1, 12.4, 13.4 SW*

Menlo Park - 8.1, 12.4, 13.4 SW*

Millbrae - 4.2*, 5.1*, 8.1, 12.4, 3.2 WS*, 13.4 SW*

Pacifica - 4.2*, 5.1*, 8.1, 9.4*, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 3.2 WS*, 13.4 SW*

Portola Valley - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

Redwood City - 4.2*, 5.1*, 8.1, 9.4*, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 3.2 WS*, 13.4 SW*

San Bruno - 4.2*, 8.1, 9.4*, 12.4, 13.4 SW*

San Carlos - 4.2*, 8.1, 9.4*, 12.4, 13.4 SW*

San Mateo - 4.2*, 5.1*, 8.1, 9.4*, 10.4, 10.5, 12.4, 13.4 SW*

South San Francisco - 4.2*, 8.1, 9.4*, 10.4, 10.5, 12.4, 13.4 SW*

Woodside - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 13.4 SW*

Special Districts

Bayshore Sanitary District - 5.1*, 3.2 WS*

Belmont Fire Protection District - 12.4

Colma Fire Protection District - 12.4

County Service Area No. 1 - 12.4

County Service Area No. 8 - 12.4

Estero Municipal Improvement District - 4.2*, 12.4

Granada Sanitary District - 4.2*

Guadalupe Valley Municipal Improvement District - 12.4

Half Moon Bay Fire Protection District - 12.4

Menlo Park Fire Protection District - 12.4

Menlo Park Sanitary District - 4.2*, 5.1*, 9.4*, 3.2 WS*

Montara Sanitary District - 4.2*

Agency and Responsibilities

SAN MATEO COUNTY (Cont'd.)

North Bayside System Unit - 5.1*, 3.2 WS*
North San Mateo County Sanitation District - 4.2*, 5.1*, 9.4*,
3.2 WS*
Point Montara Fire Protection District - 12.4
San Mateo County Flood Control District - 8.1
San Mateo County Harbor District - 10.4, 10.5
San Mateo County Mosquito Abatement District - 8.1
San Mateo County Resource Conservation District - 8.1
Sewer Authority Mid Coastside - 5.1*
South Bayside System Authority - 5.1*, 3.2 WS*
Woodside Fire Protection District - 12.4

SANTA CLARA COUNTY

County - 3.2*, 5.1*, 8.1, 10.1, 10.4, 10.5, 11.1, 11.2*, 11.3*,
11.4*, 12.4, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.4 SW*,
13.6 SW*, 15.2 SW*

Cities

Campbell - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Cupertino - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Gilroy - 4.2*, 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Los Altos - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Los Altos Hills - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Los Gatos - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Milpitas - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Monte Sereno - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Morgan Hill - 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 13.4 SW*
Mountain View - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Palo Alto - 4.2*, 5.1*, 8.1, 9.4*, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 13.4 SW*
San Jose - 4.2*, 5.1*, 8.1, 9.4*, 11.1, 11.2*, 11.3*, 11.4*,
12.4, 3.2 WS*, 13.4 SW*, 16.1 SW*, 16.3 SW*, 16.4 SW*
Santa Clara - 4.2*, 5.1*, 8.1, 9.4*, 11.1, 11.2*, 11.3*,
11.4*, 12.4, 3.2 WS*, 13.4 SW*, 16.1 SW*, 16.3 SW*, 16.4 SW*
Saratoga - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Sunnyvale - 4.2*, 8.1, 9.4*, 12.4, 13.4 SW*

Special Districts

Central Fire Protection District - 12.4
Cupertino Sanitary District - 5.1*, 3.2 WS*
Evergreen Resource Conservation District - 8.1
Fremont Fire Protection District - 12.4
Gilroy Fire Protection District - 12.4

Agency and Responsibilities

SANTA CLARA COUNTY (Cont'd.)

Loma Prieta Resource Conservation District - 8.1
Los Altos Fire Protection District - 12.4
Milpitas Sanitary District - 5.1*, 3.2 WS*
Morgan Hill Fire Protection District - 12.4
Santa Clara County Sanitation District No. 4 - 5.1*
Santa Clara Valley Water District - 5.1*, 8.1, 3.2 WS*
Saratoga Fire Protection District - 12.4
South Bay Dischargers Authority - 5.1*

SOLANO COUNTY

County - 3.2*, 5.1*, 8.1, 10.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.4 SW*, 13.6 SW*, 15.2 SW*

Cities

Benicia - 4.2*, 5.1*, 8.1, 10.4, 10.5, 12.4, 13.4 SW*
Fairfield - 5.1*, 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Suisun City - 8.1, 10.4, 10.5, 12.4, 13.4 SW*
Vallejo - 8.1, 10.4, 10.5, 12.4, 13.4 SW*

Special Districts

East Vallejo Fire Protection District - 12.4
Fairfield-Suisun Sewer District - 4.2*, 5.1*, 9.4*, 3.2 WS*
Solano Irrigation District - 5.1*, 3.2 WS*
Suisun Fire Protection District - 12.4
Vallejo Sanitation and Flood Control District - 4.2*, 5.1*, 9.4*, 3.2 WS*

SONOMA COUNTY

County - 3.2*, 5.1*, 8.1, 10.1, 10.4, 10.5, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.4 SW*, 13.6 SW*, 15.2 SW*

Cities

Petaluma - 4.2*, 5.1*, 8.1, 9.4*, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*
Sonoma - 8.1, 11.1, 11.2*, 11.3*, 11.4*, 12.4, 13.4 SW*

Special Districts

Penngrove Fire Protection District - 12.4
Schell-Vista Fire Protection District - 12.4
Sonoma Valley County Sanitation District - 4.2*, 5.1*
Valley of the Moon Fire Protection District - 12.4

Agency and Responsibilities

REGIONAL AGENCIES

Association of Bay Area Governments - 1.5, 6.1*, 8.1 (Alameda, Marin, San Mateo, Santa Clara, Sonoma), 8.2, 12.1, 12.3, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 15.2 SW*, 16.2 SW*, 3.1 PI

Bay Area Air Quality Management District - 13.6 SW*
Regional reclamation group - 5.1*, 3.1 WS*, 3.2 WS*
Wastewater solids study - 15.1 SW*, 16.1 SW*
Water management coordinating committee - 1.1 WS

STATE AGENCIES

California State Prison, San Quentin - 4.2*
Department of Fish and Game - 3.1*, 3.3, 8.1 (Sonoma)
Department of Health - 3.1*, 3.2*, 3.3, 3.4, 3.3 WS, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.6 SW*, 16.2 SW*
Department of Navigation and Ocean Development - 10.6
Department of Parks and Recreation - 5.1* (Marin), 8.1 (Marin), 10.4 (Alameda, Marin, Solano), 10.5 (Alameda, Marin, Solano)
Department of Transportation - 8.1 (Contra Costa, Marin, Santa Clara)
Governor's Office of Appropriate Technology - 11.5*
San Francisco Bay Regional Water Quality Control Board - 1.1, 1.2, 1.3, 1.4, 1.5, 3.1*, 3.2*, 4.1*, 4.3*, 5.2*, 6.1*, 8.1 (Contra Costa, Marin, Napa, Santa Clara, Sonoma), 8.2, 9.2*, 10.1, 10.2, 10.3, 11.1*, 4.1 SW*, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*, 13.6 SW*, 15.2 SW*, 16.2 SW*
State Clearinghouse - 16.2 SW*
State Solid Waste Management Board - 4.1 SW*, 11.3 SW*, 12.1 SW*, 12.2 SW*, 12.4 SW*
State Water Resources Control Board - 1.2, 1.3, 6.1*, 11.6*, 12.2, 15.2 SW*, 16.2 SW*

California Legislature - 2.1 PI, 2.2 PI, 2.3 PI*, 2.12 PI

FEDERAL AGENCIES

Department of Agriculture - 8.1 (Sonoma)
Department of Transportation - 12.7*
Environmental Protection Agency - 16.2 SW*
National Park Service - 8.1 (Marin)
Soil Conservation Service - 8.1 (Sonoma)
U.S. Army Corps of Engineers - 8.1* (Contra Costa)
U.S. Coast Guard - 10.3, 12.5

U.S. Congress - 12.6*, 12.7*, 2.12 PI

APPENDIX B
INDIVIDUAL IMPLEMENTATION REPORTS

Appendix B contains individual action status reports.
It is too large to reproduce and is available for
inspection at ABAG offices.

APPENDIX C

SUMMARY TABLE OF PLAN IMPLEMENTATION

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
General Portions of the Plan Action 1.1 - Establish San Francisco Bay Delta Research Advisory Council.	RWQCB	August 1978	Completed/Ongoing as part of 1979-80 State workplan
Action 1.2 - Conduct receiving water monitoring program for S.F. Bay.	RWQCB/SWRCB/SF Bay Delta Research Advisory Council	June 1978	Future Implementation - should begin in next few months
Action 1.3 - Evaluate and establish research goals.	SWRCB and RWQCB advised by SF Bay Delta Research Advisory Council	December 1979 and annually thereafter	Future implementation - should begin in conjunction with previous action.
Action 1.4 - Disseminate through the media and other sources an annual "State of the Waters" report.	RWQCB advised by SF Bay Delta Research Advisory Council	August 1979 and annually thereafter	No Implementation - ABAG's Annual Update of the EMP is not designed to satisfy this action.
Action 1.5 - Integrate water quality data with existing statewide data management system.	RWQCB in cooperation with ABAG	Start by December 1978	No Implementation
Action 3.1 - Conduct a preliminary survey and assessment of shellfish beds in the Bay.	RWQCB, State Dept. of Health, State Dept. of Fish and Game	February 1978	Future Implementation - two year program now underway
Action 3.2 - Establish a systematic monitoring and sampling program of selected shellfish beds.	RWQCB, State Dept. of Health, State Dept. of Fish and Game	June 1978	Future Implementation - as part of previous action
Action 3.3 - Establish an agreement between State Dept. of Health and Dept. of Fish and Game for patrolling shellfish beds.	State Dept. of Fish and Game, State Dept. of Health	(-)	Future Implementation - to be done pending results from the two previous actions
Action 3.4 - Establish criteria for commercial shellfishing in the bay and evaluate methods of harvesting.	State Dept. of Health	August 1978	Future Implementation - depends on results from Action 3.1
Action 4.1 - Issue and update monitoring requirements appropriate to permit conditions and in conformance with statewide monitoring network.	RWQCB	Continuous	Completed/Ongoing
Action 4.2 - Monitor performance of municipal and industrial wastewater systems in accordance with monitoring requirements.	Sewerage agencies and individual private companies	Continuous	Completed/Ongoing - required by NPDES permits
Action 4.3 - Publish annual report summarizing results of dischargers self-monitoring programs.	RWQCB and local agencies	Annually	No Implementation - RWQCB has data but lack of financing prevents completion of this report

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
Action 5.1 - Expand capacity of existing facilities and provide new facilities for municipal sewage collection, treatment and disposal according to the 20 year project list. Level of treatment to depend on State and Federal regulations.	Sewerage agencies	Scheduled by Fiscal Year through 2000-2001	Completed/Ongoing
Action 5.2 - Issue and update limits for municipal discharges in conformance with EMP.	RWQCB	Continuous	Completed/Ongoing
Action 6.1 - Review all proposed facilities for consistency with policy to "Encourage consolidation of treatment facilities and discharge of wastewater to well-mixed waters where economically justified and environmentally desirable."	SWRCB, RWQCB, Bay Area 208 agency and ABAG in A-95 advisory capacity	Continuous	Unknown - ABAG is reviewing projects in A-95 capacity
Action 8.1 - Implement county surface runoff plans, after adoption by the cities and county within each county.	Counties acting as lead agencies for local general purpose gov'ts, and perhaps RCDs and other special districts	See county plans	(-)
Action 8.2 - Conduct regional aspects of surface runoff program.	ABAG/RWQCB	Continuous	Completed/Ongoing as part of 1979-80 work program
Action 9.1 - Expand existing and provide new facilities for treatment and disposal of industrial wastes discharged directly to receiving waters.	Individual private companies	See Section K	Completed/Ongoing - part of NPDES program
Action 9.2 - Issue and update permits for direct industrial discharges.	RWQCB	Continuous	Completed/Ongoing - part of NPDES program
Action 9.3 - Expand existing and provide new facilities for pretreatment of industrial wastewaters discharged to municipal sewer systems.	Individual private companies	Continuous	Completed/Ongoing - part of local service control program
Action 9.4 - Issue and update permits for industrial discharges to municipal sewer systems.	Sewerage agencies	Continuous	Completed/Ongoing - part of local source control program, but may require revisions with new regulations
		C-2	

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
Action 10.1 - Improve monitoring and documentation of vessel waste pollution.	RWQCB in consultation with county health departments	Quarterly commencing December 1978	No Implementation - not a priority of RWQCB
Action 10.2 - Conduct public hearing(s) and establish discharge prohibition as appropriate.	RWQCB	June 1978	No Implementation
Action 10.3 - Inform boating public of marine sanitation device programs.	RWQCB, U.S. Coast Guard	1978 and 1979	Partial Implementation - done by Coast Guard but not RWQCB
Action 10.4 - All marinas and harbors to provide vessel holding tank pump-out facilities.	Marina/harbor owners	January 1980	Partial Implementation - better progress with public marinas than with private - no enforcement from State
Action 10.5 - All marinas and harbors to provide on-shore toilet facilities.	Marina/harbor/launch area owners	January 1980	Completed
Action 10.6 - Revise DNOD's loans and grants programs to fund pump-out facilities and on-shore toilets.	California Department of Navigation and Ocean Development	(-)	Completed
Action 11.1 - Establish minimum regionwide standards for on-site disposal systems.	RWQCB with assistance from County Health Depts., city and county governments	Standards to be established by Dec. 1979 and incorporated by cities and counties into local building codes and ordinances by April 1980	Partial Implementation - guidelines adopted by RWQCB but not yet incorporated by all local governments.
Action 11.2 - Inspect periodically new on-site wastewater disposal systems, including septic tanks, and establish procedures to ensure proper maintenance.	Local agencies	October 1978	Completed/Ongoing - RWQCB guidelines include enforcement of this action
Action 11.3 - Establish procedure for inspection and maintenance of existing on-site systems where appropriate.	Local governments	As needed	Completed/Ongoing - Stinson Beach is a good example
Action 11.4 - Where on-site systems are inappropriate, install sewerage system.	Local sewerage agencies	Ongoing	Completed/Ongoing
Action 11.5 - Promote research of on-site disposal systems.	Governor's Office of Appropriate Technology, private industry	Ongoing	Completed/Ongoing - via State and Federal funding
Action 11.6 - Revise State grant programs to ensure consideration for funding on-site systems.	SWRCB	Ongoing	Completed/Ongoing - regulation changes put into effect in 1979
Action 12.1 - Monitor the implementation of new hazardous substances regulation.	ABAG	October 1978 C-3	Completed/Ongoing

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
Action 12.2 - Establish a task force to investigate non-petroleum hazardous chemical spill problems in offshore waters, bays and estuaries of California, and make recommendations.	SWRCB	October 1979	No Implementation
Action 12.3 - Investigate cleanup and preventive measures for inland spills of all potentially hazardous or toxic chemicals in the Bay Area and make recommendations for improvement.	Independent consultant hired by ABAG	October 1979	No Implementation - not approved for funding by EPA
Action 12.4 - Develop local roadway and railbed spill containment and cleanup capabilities.	Local fire departments, County Offices of Emergency Services	December 1978	Partial Implementation - plan should be changed to tie this action to water quality considerations
Action 12.5 - Reevaluate need to upgrade vessel traffic system in Carquinez Strait and N. San Pablo Bay.	U.S. Coast Guard	June 1979	Completed - Recent study found expanded radar coverage not warranted
Action 12.6 - Unless preempted by Federal law, enact State Legislation to increase liability of spillers and compensate for oil spill damage.	California Legislature	Ongoing	No Implementation
Action 12.7 - Promulgate final Federal regulations proposing improvements in requirements for navigational aids and tanker construction.	U.S. Dept. of Transportation, U.S. Congress	Ongoing	Future Implementation - by October 1, 1979
<u>Water Supply Actions</u>			
Action 1.1 - Establish water resource management coordinating committee (WMCC).	WMCC	July 1978	Completed/Ongoing - group exchanges information and is considering research needs
Action 3.1 - Conduct regional reclamation study.	Joint Powers Agency already being formed	November 1977	Completed/Ongoing - Phase II now beginning
Action 3.2 - Construct cost-effective wastewater reclamation projects.	Wastewater agencies	Continuous	Completed/Ongoing
Action 3.3 - Expedite studies and standard setting for use of reclaimed wastewater for recharge and other purposes.	State Dept. of Health	Continuous	Completed/Ongoing - current research effort is centered in Los Angeles basin
<u>Solid Waste Actions</u>			
Action 4.1 - Accelerate the adoption and updating of the Waste Discharge Requirements.	RWQCB with cooperation from the SSWMB	December 1978	Completed/Ongoing

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Solid Waste Actions (cont'd)</u>			
Action 11.3 - Determine whether there is a need for additional Class I site capacity.	State Health Dept. in conjunction with RWQCB, SSWMB, ABAG and the counties	Ongoing	Future Implementation - funding delays at State level
Action 12.1 - Encourage hazardous waste reduction.	State Dept. of Health with assistance from ABAG, SSWMB, RWQCB and county solid waste management agencies	Ongoing	Completed/Ongoing - although State has limited staff resources for this purpose
Action 12.2 - Encourage hazardous waste source separation.	State Health Dept. with assistance from ABAG, SSWMB, RWQCB and county solid waste management agencies	Ongoing	Completed/Ongoing - RCRA funding may be available to augment State effort
Action 12.4 - Investigate the consolidation of hazardous wastes for processing.	State Health Dept. with assistance from ABAG, SSWMB, RWQCB and county solid waste management agencies	Ongoing	Completed/Ongoing
Action 13.4 - Improve procedures for preventing and handling spills of hazardous wastes.	Appropriate Federal, State, regional and local agencies; County Offices of Emergency Services; county and cities for each county	Ongoing	Partial Implementation - by Alameda County. Financing may be a problem
Action 13.6 - Establish and enforce regulations for on-site disposal of hazardous wastes.	State Health Dept., Bay Area Air Pollution Control Dist., RWQCB, county solid waste management agencies	1978	Future Implementation - final EPA regulations still pending
Action 15.1 - Complete the regional wastewater solids management plan.	S.F. Bay Region Wastewater Solids Study	1978	Completed - approval in 1979
Action 15.2 - Integrate the Wastewater Solids Study recommendations into regional and local solid waste management plans.	ABAG in conjunction with SWRCB, RWQCB, other designated wastewater management agencies and county solid waste management agencies	Continuous after December 1977	Future Implementation - will occur pending funding for a solid waste management program
Action 16.1 - Develop facilities plans (Step 1 - for wastewater solids management).	Wastewater solids study will develop plans for EBMUD, CCCDS, S.F., San Jose/Santa Clara; other wastewater agencies will develop their own facilities plans as necessary	December 1978 for initial facilities plans	Completed - in January 1979

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Plan Implementation Actions</u>			
Action 2.1 - Provide additional funding for the California Dept. of Health to carry out regulations for commercial and recreational shellfish harvesting in S.F. Bay.	California Legislature	As soon as possible	Future Implementation - see Water Quality Actions 3.1, 3.2, 3.3 and 3.4
Action 2.2 - Enact legislation to require existing marinas and harbors to provide onshore toilet facilities.	California Legislature	As soon as possible	No Implementation - seems unnecessary because facilities are already on line
Action 2.3 - Unless preempted by Federal law, enact legislation on liability requirements and compensation to minimize water pollution from oil spills.	California Legislature	As soon as possible	No Implementation - bills failed in Legislature
Action 2.12 - Provide necessary funding for local government agencies to carry out regulations and programs outlined in this Plan.	U.S. Congress, California Legislature, and local government based upon future income sources	As needed	Partial Implementation - funding picture is mixed
Action 3.1 - Obtain management agreements to implement the policies and actions of appropriate portions of the EMP.	ABAG, all implementing agencies	Following General Assembly approval of the initial plan	Completed/Ongoing

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>San Mateo County</u> <u>Surface Runoff Plan</u>			
Action A.1 - Establish program to determine more clearly persistent problem areas.	208 Steering Committee, Technical Subcommittee	November 1977 to June 1983	Completed/Ongoing
Action A.2 - Recommend a program to encourage improved vehicle construction and design standards.	Federal or State Governments, industry	June 1978	Partial Implementation - program recommended by county for 208 plan
Action A.3(a) - Establish a regionwide public education program.	Counties, ABAG	September 1977 to June 1983	Dont' Know
Action A.3(b) - Establish a pilot education program as a test area for a regionwide or County program focused on the lagoon areas.	Lead agency, ABAG, Pilot Area cities: Brisbane, Foster City, Redwood City, San Mateo	September 1977 to June 1979	Partial Implementation - funding sources identified and funding expected.
Action A.3(c) - Develop model approaches to litter and dumping controls.	Lead Agency, 208 Steering Committee	October 1977 to June 1979	Completed/Ongoing - county SB650 proposal awaiting funding decision
Action A.3(d) - Develop model approaches to oil recycling.	Lead Agency, 208 Steering Committee	October 1977 to June 1979	Completed/Ongoing
Action A.3(e) - Develop a program to implement model approaches and public education.	Counties, ABAG, 208 Steering Committee, Lead Agency	Interim: June 1978 Other: June 1979	No Implementation
Action A.3(f) - Implement program with adjustments to reflect annual review and update.	To be determined: ABAG, cities, county, special districts, Flood Control, Mosquito Abatement	June 1979 to June 1983	Future Implementation - schedule still maintainable
Action A.4(a) - Develop model approaches to cleaning storm inlets, catch basins, drainage pipes, channels, and streams.	Lead Agency, 208 Steering Committee	June 1979 to June 1980	Completed/Ongoing
Action A.4(b) - Develop a program to implement model approaches.	Lead Agency, 208 Steering Committee	June 1980	Future Implementation - as per schedule
Action A.4(c) - Implement recommendation program with adjustments to reflect annual review and update.	To be determined	June 1980 to June 1983	Future Implementation - as per schedule
Action A.5(a) - Develop means to help local jurisdictions maintain high levels of street sweeping especially during the rainy season.	Lead Agency, 208 Steering Committee	October 1977 to June 1979	Completed/Ongoing - high potential for equipment sharing

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>San Mateo County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action A.5(b) - Develop model approaches to reduce on-street parking while sweeping.	Lead Agency, 208 Steering Committee	October 1977 to June 1979	No Implementation
Action A.5(c) - Develop means to help local jurisdictions increase the pick-up of fine particles when sweeping.	Lead Agency, 208 Steering Committee	October 1977 to June 1979	No Implementation
Action A.5(d) - Develop a program to implement model approaches and methods.	Lead Agency, 208 Steering Committee	Interim: June 1978 Other: June 1979	No Implementation
Action A.5(e) - Implement recommendation program with adjustments to reflect annual review and update.	City and County	Interim: August 1978 Other: August 1979	No Implementation
Action B.1 - Determine more clearly the locations of significant erosion and siltation.	208 Steering Committee, Technical Subcommittee	November 1977 to June 1983	Completed/Ongoing - Pescadero identified, to be funded by 208
Action B.2(a) - 1. Establish a program to improve existing erosion and runoff control practices in the unincorporated coastal area; 2. Identify and analyze existing County policies, practices and programs; 3. Develop recommendations and aids for improvements; 4. Implement recommendations; 5. Distribute findings to other jurisdictions.	1. County 208 Steering Committee; 2. County; 3. County, 208 Steering Committee; 4. County; 5. County	1. October 1977 to December 1978; 2. October 1977 to June 1978; 3. October 1977 to December 1978; 4. December 1978 to June 1980; 5. December 1978 to June 1979	Completed/Ongoing - see above action
Action B.2(b) - Develop and adopt an Area Plan for the Brisbane Watershed which addresses siltation from the Guadalupe Valley area.	County	September 1977 to September 1978	Completed/Ongoing
Action B.2(c) - Based on B.1 above, develop and implement recommendations for further work with adjustments to reflect annual review and update.	County 208 Steering Committee	June 1979 to June 1983	Future Implementation - as per schedule
Action B.3(a) - Adopt second phase road standard revisions; Creative Road Design Guide.	County	December 1978	Completed/Ongoing - (?) - guide developed and apparently adopted

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>San Mateo County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action B.3(b) - Based on B.1 above, develop recommendations for other areas in the County.	Lead Agency, 208 Steering Committee	June 1978 to June 1980	Future Implementation - as per schedule
Action C.1 - Recommend continued Federal and State aid for infiltration/inflow analysis, and sewer line repair or replacement.	State, Federal government, local agencies	June 1978	Don't know
Action C.2 - Establish a program to determine more clearly the cause and locations of problem areas.	Local cities, County districts	November 1977 to June 1983	Partial Implementation - funding for the trunk sewers and infiltration studies not a high priority
Action D.1(a) - Establish improved bacteriological ranges for County shellfish monitoring program.	County Environmental Health Office	October 1977 to June 1983	Future Implementation - as per schedule
Action D.1(b) - Conduct monitoring above and below suspected problem source on French Creek.	County Environmental Health Officer	October 1977 to June 1979	Completed/Ongoing
Action D.1(c) - Develop coordinated field survey or monitoring in San Pedro Creek watershed.	208 Steering Committee, Technical Subcommittee	November 1977 to June 1979	Partial Implementation - several activities but documentation not adequate
Action D.2(b) - Continue implementation of Foster City Lagoon Management Plan.	Foster City	Continuing	Don't know
Action D.2(c) - Develop and implement other specific programs based on D.1 above and Item E. below.	Lead Agency, 208 Steering Committee	November 1977 to June 1983	Future Implementation - as per schedule
Action E.1 - Establish an interagency system to identify problems and related control measure recommendations.	Lead Agency, 208 Steering Committee	November 1977 to June 1983	Completed/Ongoing - both regional and county-wide committees established
Action E.1(a) - Establish a 208 Steering Committee Technical Subcommittee to guide development of system.	Lead Agency, 208 Steering Committee, 32 agencies (see Table 10)	November 1977	Completed/Ongoing - see previous action
Action E.1(b) - Establish a specific annual work program and general 5 year work program for interagency cooperation.	Lead Agency, 208 Steering Committee, 32 agencies (see Table 10)	November 1977 to June 1978	Completed/Ongoing - same as for Action E.1
Action E.1(c) - Implement work program with adjustments to reflect annual review and update.	Lead Agency, 208 Steering Committee, 32 agencies (see Table 10)	Interim: January 1977 to June 1978 Other: June 1979 to June 1983	Future Implementation - same as for Action E.1

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>San Mateo County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action F.1 - Establish and implement procedures for annual review and update of Plan.	Lead Agency, 208 Steering Committee	March to June each year	Completed/Ongoing - although may be biennial
Action F.2 - Establish a Lead Agency. (a) Establish a process and schedule for determining a Lead Agency. (b) Determine Lead Agency.	County, cities, Other: Mosquito Abatement, RCD	(a) by June 1978 (b) March 1978	Completed/Ongoing - County Planning Division is Lead Agency
Action F.3(a) - Establish local cost-sharing mechanisms for annual update.	County, cities, Other: Mosquito Abatement, RCD	March 1978	Completed/Ongoing - outside funding sources also identified.
Action F.3(b) - Determine specific cost and financing mechanisms for each annual work program.	Lead Agency, 208 Steering Committee	March to June each year	Completed/Ongoing - see previous action
Action G.1(a) - Develop an annual Action Plan worksheet to direct local documentation efforts.	Lead Agency, 208 Steering Committee	March to June each year	Partial Implementation - completed only by some juris- dictions, and effectiveness questioned
Action G.1(b) - Implement documentation program.	County, cities, districts	September 1977 to June 1983	Future Implementation - see previous action

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Santa Clara County Surface Runoff Plan</u>			
Action 1 - Monitor water quality in the Bay and identify specific adverse impacts of surface runoff pollution.	RWQCB	September 1977 through June 1982	Dont' know
Action 2 - Monitoring program and further problem evaluation.	RWQCB	September 1977 through June 1982	Don't know
Action 3 - Litter control along freeways and other State-maintained roads.	CalTrans	September 1977 through June 1982	Completed/Ongoing
Action 4 - Public education campaign.	ABAG	September 1977 through June 1982	Don't know
Action 5 - Monitor local mitigation programs, prepare annual reports regarding local efforts and their effectiveness.	Local surface runoff management coordinating agency (Santa Clara County Surface Runoff TAC)	First part: Sept. 1977 through June 1978; Second part: July 1978 through June 1982	Completed/Ongoing - annual report prepared
Action 6 - Monitor water quality in reservoirs, marginal monitoring in streams.	Santa Clara County Health Department	September 1977 through June 1982	Partial Implementation - cut in budget due to Proposition 13
Action 7 - Street cleaning, litter control, catchbasin and storm sewer cleaning.	Campbell	September 1977 through June 1982	Partial Implementation - street cleaning cut back but partially restored
Action 8 - Street cleaning, litter control, catchbasin cleaning, enforce ordinance restricting dumping of wastes into storm sewers and catchbasins, storm sewer cleaning, erosion control (enforce grading ordinance, enforce drainage requirement, enforce landscaping requirement).	Cupertino	September 1977 through June 1982	Completed/Ongoing - services maintained despite funding problems
Action 9 - Street cleaning, catchbasin cleaning.	Gilroy	September 1977 through June 1982	Partial Implementation - cut-back in street sweeping
Action 10 - Street cleaning, catchbasin cleaning, storm sewer cleaning, erosion control case-by-case requirements for developer.	Los Altos	September 1977 through June 1982	Completed/Ongoing - increase in expenditures since initial plan
Action 11 - Street cleaning, litter control, catchbasin cleaning, storm sewer cleaning, erosion control ordinances.	Los Gatos	September 1977 through June 1982	Completed/Ongoing - existing programs plus increased services to newly annexed areas
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SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Santa Clara County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action 12 - Street cleaning, litter control, catchbasin cleaning, storm sewer cleaning.	Milpitas	September 1977 through June 1982	Completed/Ongoing - once cut services now fully restored
Action 13 - Street cleaning, catchbasin cleaning, storm sewer cleaning.	Monte Sereno	September 1977 through June 1982	Completed/Ongoing - service levels constant
Action 14 - Street cleaning, litter control, catchbasin cleaning.	Morgan Hill	September 1977 through June 1982	Completed/Ongoing - services apparently maintained
Action 15 - Street cleaning, catchbasin cleaning, enforce ordinance prohibiting dumping into storm sewers, storm sewer cleaning.	Mountain View	September 1977 through June 1982	Completed/Ongoing
Action 16 - Street cleaning, litter control, catchbasin cleaning, storm sewer cleaning.	City of Santa Clara	September 1977 through June 1982	Completed/Ongoing - programs not affected by Proposition 13
Action 17 - Street cleaning, catchbasin cleaning.	Saratoga	September 1977 through June 1982	No Implementation - programs stopped due to budget constraints
Action 18 - Street cleaning, catchbasin cleaning, storm sewer cleaning, enforce ordinance against dumping into a storm sewers, erosion control-grading permits required.	Sunnyvale	September 1977 through June 1982	Partial Implementation - program cutbacks due to Proposition 13 and inflation
Action 19 - Oil recycling program.	Santa Clara County, Cupertino, Los Altos, Santa Clara, San Jose, Saratoga, Sunnyvale	September 1977 through June 1982	Completed/Ongoing - cities cooperating to run this program
Action 20 - Enforce grading ordinance.	Santa Clara County	September 1977 through June 1982	Partial Implementation - new ordinance but weak enforcement
Action 21 - Continued installation of best management practices, land management plan development by watersheds.	RCDs	September 1977 through June 1978	Completed/Ongoing
Action 22 - Develop model guidelines for incorporating surface runoff concerns into EIR process.	Local surface runoff management coordinating agency (yet to be designated)	July 1978 to June 1980	Future Implementation - county will use information developed during 208 planning
Action 23 - Regulate use of certain pesticides.	Santa Clara County Agricultural Commissioner	September 1977 through June 1982	Completed/Ongoing - although private use of non-permit pesticides may be a problem

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Santa Clara County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action 24 - Biological control program.	Morgan Hill	September 1977 through June 1982	Completed/Ongoing - continuing City policy
Action 25 - Pilot project to determine role of Palo Alto Flood Basin in mitigating surface runoff pollution.	Santa Clara Valley Water District	July 1978 through June 1980	Completed/Ongoing - two year project on schedule

APPENDIX

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Alameda County Surface Runoff Plan</u>			
Action A.1 - Adopt Surface Runoff Management Plan Implementation Principles.	Cities/County	July 1978 to June 1979	No Implementation - momentum lost due to CPP funding delay
Action B.1 - Implement Public Education Programs.	County/ABAG/RCD	July 1978 to June 1979	Partial Implementation - conference and other activities
Action B.3 - Continue 208 Technical Advisory Committee.	Local agencies	July 1978 to June 1979	Future Implementation - next meeting in Fall 1979
Action B.4 - Establish Plan Management Staff.	Alameda County Flood Control and Water Conservation Dist.	July 1978 to June 1979	Completed/Ongoing - local funds have played major role
Action B.5 - Implement Castro Valley 208 Demonstration Project (Phase I).	Alameda County Flood Control and Water Conservation Dist.	July 1978 to June 1979	Completed/Ongoing - project on schedule
Action B.6 - Implement Monitoring Plan.	Alameda County Flood Control and Water Conservation Dist.	July 1978 to June 1979	Completed/Ongoing - financed with local funds
Action C.1 - Draft Watercourse Protection Ordinance.	Alameda County Flood Control and Water Conservation Dist.	July 1978 to June 1979	Future Implementation - schedule adjusted because of 208 funding delay
Action G.1 - Implement Oil Recycling Program.	Cities/County/Solid Waste Management JPA	July 1978 to June 1979	Completed/Ongoing - managed by State, 122 centers in county
Action E.3 & E.4 - Investigate Public Works Maintenance Operation and Construction Practices.	Alameda County Flood Control and Water Conservation Dist.	July 1978 to June 1979	Future Implementation - schedule adjusted because of 208 funding delay
Action M. - Evaluate Agricultural Chemical Use Practices.	County Agricultural Committee/RCD	July 1978 to June 1979	Completed/Ongoing
Action N. - Investigate Hazardous Material Spill Program.	Alameda County Flood Control and Water Conservation Dist.	July 1978 to June 1979	Completed/Ongoing - county has new Emergency Response plan for Hazardous Material spills
Action R. - Investigate Non-Local Funding Sources.	Alameda County Flood Control and Water Conservation Dist./RCD	July 1978 to June 1979	Completed/Ongoing

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Marin County Surface Runoff Plan</u>			
Urban Action 1 - Media approach to educate to reduce pollutants.	CRWQCB, ABAG, Public Works	ABAG schedule; draft list of erosion control measures; attach list to building, grading and creek permits - 9/30/78	Partial Implementation - some materials developed.
Urban Action 2 - Ban parking by street side to allow sweeper access.	Local police and public works agencies	FY 1978-79	Partial Implementation - cities willing, but having funding problems
Urban Action 3 - Increase sweeping due to land use or seasonal needs.	Public Works	(-)	Completed/Ongoing
Urban Action 4 - Repair chuckholes, etc. in street surface.	Public Works, CalTrans	Continued maintenance of existing facilities	Completed/Ongoing
Urban Action 5 - Remove materials collected in catch basins and storm drains.	Public Works	Review and improve by 9/30/78	Completed/Ongoing
Urban Action 6 - Enforce existing requirements to control erosion during and following construction or grading.	Public Works	Implement by 9/30/78	Partial Implementation - level of enforcement somewhat reduced due to budget constraints
Urban Action 7 - Debris removal, dredging of culverts and drain pipe installation.	Public Works, CalTrans	(-)	Partial Implementation - may be service reductions in future
Rural Action 1 - Media approach to educate to reduce pollutants.	CRWQCB, ABAG, Public Works	ABAG schedule; draft list of erosion control measures, attach list to building, grading and creek permits - 9/30/78	Partial Implementation - some materials developed.
Rural Action 2 - Criteria which must be met when development occurs within water supply watersheds to insure water quality.	Public Works, Planning, Municipal Water Districts, Parks, Recreation and Open Space Districts, Farm Advisor, Building Inspection, Agricultural Commissioner, County Counsel, RCD	Establish committee to develop standards 4/30/78; develop standards and draft amendments to, or new ordinance 8/1/78; Board of Supervisors adopt ordinance 9/30/78	Future Implementation - to be developed as part of 208 continuing planning process
Rural Action 3 - Enforce existing requirements to control erosion during and following construction or grading.	Public Works	Implement by 9/30/78	Partial Implementation - level of enforcement somewhat reduced due to budget constraints

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Marin County</u> <u>Surface Runoff Plan (cont'd)</u>			
Rural Action 4 - Repair chuckholes, etc. in street surface.	Public Works, CalTrans	Continued maintenance of existing facil- ities	Completed/Ongoing
Rural Action 5 - Debris removal, dredging of cul- verts and drain pipe installation.	Public Works, CalTrans	(-)	Partial Implementation - may by service reductions in future

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Napa County</u> <u>Surface Runoff Plan</u>			
Action 1 - For evidence of septic tank effluent in Edgerly Island drainage ditches, determine most effective treatment technique and apply for 201 grant.	County Division of Environmental Health	November 1977 through June 1979	Completed/Ongoing
Action 2 - For evidence of septic tank effluent in Edgerly Island drainage ditches, construct facility and eliminate septic tank systems.	County Division of Environmental Health	July 1979 through June 1983	Future Implementation - as per schedule in plan
Action 3 - For evidence of septic tank effluent in drainage swale near Auction Yard-Tower Road area, locate source and require improvements. Continue surveillance.	County Division of Environmental Health	November 1977 through June 1983	Completed/Ongoing - problem now eliminated, surveillance continues
Action 4 - For high coliform counts in Conn Creek at Lake Hennessy, sample Conn Creek.	County Department of Public Works	November 1977 through March 1978	Completed/Ongoing
Action 5 - For high coliform counts in Conn Creek at Lake Hennessy, determine magnitude of problem.	County Division of Environmental Health	April 1978 through June 1979	Completed/Ongoing
Action 6 - For high coliform counts in Conn Creek at Lake Hennessy, develop supplemental control program.	County Division of Environmental Health	July 1979 through June 1983	Completed/Ongoing - problem solved via completion of new facilities
Action 7 - For boron values upper Napa River sometimes exceeding irrigation standards, locate sources.	Napa County Flood Control and Water Conservation Dist.	November 1977 through June 1980	Partial Implementation - report will be finished next year
Action 8 - For boron values upper Napa River sometimes exceeding irrigation standards, reduce discharge at sources.	Napa County Flood Control and Water Conservation Dist., County Development and Planning Dept., City of Calistoga	July 1980 through June 1983	Future Implementation - as per schedule in plan
Action 9 - For algae bloom and low dissolved oxygen in lower Napa River, periodically review water quality monitoring reports.	Napa County Flood Control and Water Conservation Dist.	November 1977 through June 1980	Completed/Ongoing
Action 10 - For algae bloom and low dissolved oxygen in lower Napa River, analyze water quality monitoring reports.	Napa County Flood Control and Water Conservation Dist., RWQCB	July 1980 through August 1980	Future Implementation - may take place sooner than plan's schedule

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Napa County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action 11 - For algae bloom and low dissolved oxygen in lower Napa River, prepare and implement necessary additional control measures.	Napa County Flood Control and Water Conservation Dist., RWQCB	September 1980 through September 1981	Future Implementation - contingent on analysis in previous action
Action 12 - For algae bloom and low dissolved oxygen in lower Napa River, obtain and distribute information on surface runoff control standards and options.	Napa County Dept. of Public Works, Napa County Flood Control and Water Conservation Dist.	November 1977 through December 1977	No Implementation - information not available as expected
Action 13 - For algae bloom and low dissolved oxygen in lower Napa River, review existing practices for low or no cost opportunities to reduce water pollution caused by surface runoff.	All local agencies, RCD	November 1977 through June 1979	Completed/Ongoing
Action 14 - For algae growth plus stratification in fresh water reservoirs, determine magnitude of problem.	Yountville Veterans' Home, City of Napa, City of St. Helena	November 1977 through June 1979	Completed/Ongoing
Action 15 - For algae growth plus stratification in fresh water reservoirs, prepare and implement necessary control measures.	Yountville Veterans' Home, City of Napa, City of Calistoga	July 1979 through June 1983	Completed/Ongoing - further studies show no longer a problem
Action 16 - For degraded water quality in streams, drainage channels and Napa River due to illegal dumping of refuse, continue notices to property owners.	County Division of Environmental Health	November 1977 through June 1979	Completed/Ongoing
Action 17 - For degraded water quality in streams, drainage channels and Napa River due to illegal dumping or refuse, determine magnitude of problem; determine effectiveness of existing controls.	Napa County Flood Control and Water Conservation Dist., County Division of Environmental Health, and cities	July 1979 through December 1979	Future Implementation - schedule will be delayed
Action 18 - For degraded water quality in streams, drainage channels and Napa River due to illegal dumping of refuse, implement additional controls if existing are deemed insufficient.	Napa County Flood Control and Water Conservation Dist., County Division of Environmental Health, and cities	January 1980 through June 1983	Completed/Ongoing - channel clearing and Napa River project implemented

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Solano County</u> <u>Surface Runoff Plan</u>			
Action A.1 - Staff a Surface Runoff Section in Public Works and Planning Dept.	County Planning and Public Works	July 1978	Completed/Ongoing - Staff hired on contract
Action A.2 - Continue the Surface Runoff Management Technical Advisory Committee (TAC).	Surface Runoff Section	July 1978	Future Implementation - Committee will reconvene shortly and meet often
Action A.3 - Retain the Surface Runoff Management Citizens Advisory Committee (ad hoc).	Surface Runoff Section	July 1978	Future Implementation - turning more toward an active public information program
Action A.4 - Implement a continuing water quality monitoring program.	Surface Runoff Section	1978	No Implementation - due to lack of funding, although still a county priority
Action A.5 - Initiate a continuing public education program.	Surface Runoff Section	July 1978	Future Implementation - consolidated with Action A.3
Action A.6 - Review findings of other Surface Runoff Management agencies and the EPA.	Surface Runoff Section	July 1978-1984	Completed/Ongoing
Action A.7 - Prepare periodic reports.	Surface Runoff Section	Annually	Completed/Ongoing - funded locally during transition period
Action B.1 - Conduct a street sweeping demonstration project.	City of Fairfield and Surface Runoff Section	July 1979	No Implementation - funding not found, though county expects to use Alameda data
Action B.2 - Prohibit flushing of materials from impervious surfaces.	Cities	1980	Future Implementation - enforcement and public awareness are obstacles
Action B.3 - Establish guidelines for improving street sweeping effectiveness.	Surface Runoff Section and Cities	1979	Future Implementation - as part of continuing planning effort
Action C.1 - Identify critical habitats and potential impacts of chemicals.	Agricultural Commissioner and Surface Runoff Section	1980	Future Implementation - lack of funds, although schedule still possible
Action C.2 - Initiate a public education program aimed at home users of chemicals.	Surface Runoff Section and Agricultural Commissioner	1979	No Implementation - same as Action C.1, except schedule not met
Action D.1 - Investigate an oil recycling program.	Surface Runoff Section	1978	Completed/Ongoing
Action D.2 - Initiate a public education program on the consequences of direct dumping.	Surface Runoff Section	1979	No Implementation - no funds, but some effort possible under Action A.5

SUMMARY TABLE OF PLAN IMPELMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Solano County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action E.1 - Review and modify septic tank criteria.	Health Department	1978-79	Completed/Ongoing
Action E.2 - Monitor the septic tank inspection program.	Health Department & Surface Runoff Section	1979-84	Completed/Ongoing
Action F.1 - Minimize the installation of new catch-basins.	County and cities	1978	Completed/Ongoing - very few new installations
Action F.2 - Monitor and maintain existing catch-basins.	County, cities and special districts	1978	Partial Implementation - by Vallejo Sanitation and Flood Control District
Action F.3 - Implement catch-basin elimination program.	County and cities	1978	Partial Implementation - by Vallejo Sanitation and Flood Control District
Action G.1 - Identify critical areas and applicable controls (under "Control Erosion").	TAC, SCS, and Surface Runoff Section	1978	Partial Implementation - piecemeal efforts
Action G.2 - Implement erosion control program.	SCS and County Public Works	1978-79	Future Implementation - during continued 208 planning
Action G.3 - Establish erosion control ordinances.	County and cities	1979	Future Implementation - ordinance almost ready to present to county and cities
Action G.4 - Require erosion control considerations in Environmental Impact Assessments.	County and cities	1978	Completed/Ongoing - more formal guidelines may be produced during continued 208 planning
Action H.1 - Adopt creekside ordinances.	County Planning and SCS	July 1979	Future Implementation - ordinance prepared and ready for presentation to county and cities
Action H.2 - Examine agricultural practices.	County Planning and SCS	July 1979	Completed/Ongoing - resulted in agricultural rezoning
Action H.3 - Apply subdivision design review.	TAC and Surface Runoff Section	1978-1984	Future Implementation - done during continuing 208 planning
Action H.4 - Coordinate land use activities with Napa County.	County Planning and Surface Runoff Section	1978-1984	Completed/Ongoing - as part of General Plan update

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Sonoma County</u> <u>Surface Runoff Plan</u>			
Action S-1.1 - Create Surface Runoff Quality Committee (SRQC).	Sonoma County Water Agency, Co. Health Dept., Co. Ag. Comm., Co. Sanitarian, Co. Farm Adv., Petaluma Public Works, Sonoma Public Works, Co. Rd. Dept., RWQCB, CA Dept. of Fish and Game, RCDs, Co. Planning, ABAG, news media	Commence summer 1978, meet monthly and as necessary	No Implementation - County would implement only with full outside funding, which has not been found
Action S-1.2 - Ordinance review.	Surface Runoff Quality Committee	Commence Fall 1978	No Implementation - depends on Actions S-1.1
Action S-1.3 - Documentation of past and existing problems.	Lead Agency staff	Commence Fall 1978, ongoing	Partial Implementation - ongoing practices only, further work depends on Action S-1.1
Action S-1.4 - Backup storm runoff monitoring.	Sanitation Dists., private consultants, RWQCB	Commence Winter 1978, ongoing	Partial Implementation - by RWQCB, not by local sanitation districts
Action S-1.5 - Draft erosion control ordinance.	Surface Runoff Quality Committee, Board of Supervisors, citizens committee representing construction, agricultural and environmental interests	Commence Spring 1979	No Implementation - depends on Action S-1.1, although ABAG's work may cover
Action S-1.6 - Adopt erosion control ordinance.	Board of Supervisors, County Counsel	Winter 1979	No Implementation - see previous action
Action S-1.7 - Encourage cooperation and coordination.	Surface Runoff Quality Committee	Commence Winter 1978	Partial Implementation - ongoing practices only, further work depends on Action S-1.1
Action S-1.8 - Establish resource recycling subcommittee of Surface Runoff Quality Committee.	SRQC, cities of Sonoma and Petaluma Public Works Depts., refuse companies, environmental groups, Sonoma County Dept. of Public Works, petroleum industry representatives and ABAG	Commence Fall 1978	No Implementation - private recycling only, county work depends on Action S-1.1
Action S-1.9 - Public works activities.	SRQC, Sonoma Co. Public Works Dept., Sonoma Co. Water Agency	Commence Summer 1978	Partial Implementation - encouraged by preparation of initial plan

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Sonoma County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action S-2.1 - Land management values.	ABAG, County School Supt., school dists., library dists., local news media, cities of Sonoma and Petaluma, Sonoma Co. 208 coordinator	Commence Winter 1978, ongoing	Partial Implementation - ongoing practices only, no public education program sponsored by ABAG has been funded
Action S-2.2 - News media alert.	208 coordinator, news media/SRQC	Commence Summer 1979, ongoing	Partial Implementation - for flooding and chemical spills
Action S-2.3 - Spray research	EPA	Commence Summer 1979, ongoing	Completed/Ongoing
Action S-2.4 - Spray education	ABAG, Ag. Comm., Farm Advisor	Commence Summer 1979	Partial Implementation - by county, not by ABAG
Action S-2.5 - Ground disturbance	208 coordinator, Sonoma Co. Building Dept., Cities of Sonoma and Petaluma Building Depts.	Commence Summer 1978, ongoing	No Implementation - may be assisted by ABAG's continuing 208 work.
Action S-2.6 - Fire damage	208 coordinator, Sonoma Co. Ag. Comm., USDA, Ag. Stabilization and Conservation Office, RCDs, fire protection dists.	Commence Summer 1978, ongoing	Partial Implementation - on case by case basis, but county wants to see coordinated.
Action S-2.7 - Septic tank maintenance	208 coordinator, Sonoma Co. Depts. of Env. Health and Building	Commence Summer 1978, ongoing	No Implementation
Action S-2.8 - Best Management Practices manual	SRQC, Ag. Comm., Farm Adv., RCDs	Commence Spring 1979	No Implementation - depends on Action S-1.1.
Action A-2.1 - Document existing and past programs, verify street sweeping schedules, County street sweeping policy to be established.	SRQC, cities of Sonoma and Petaluma Pub. Wks. Depts., Son. Co. Pub. Wks. Dept.	Commence Summer 1978	No Implementation
Action A-2.2 - Modify Activity	SRQC, cities of Sonoma and Petaluma Pub. Wks. Depts., Son. Co. Pub. Wks. Dept.	Commence Fall 1978, ongoing	Partial Implementation - some local practices cut back due to Proposition 13
Action A-2.3 - Impose parking restrictions	SRQC, cities of Sonoma and Petaluma Pub. Wks. Depts., Son. Co. Pub. Wks. Dept.	Commence Fall 1978	No Implementation

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Sonoma County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action A-2.4 - Initiate sweeping program	Sonoma County Public Works Dept.	Commence Summer 1979	No Implementation - county sweeper axed because of Proposition 13.
Action A-2.5 - Policy to establish rural street drainage - sediment control standards	Sonoma County Depts. of Pub. Wks., Community Devt./ Environmental Services	Commence Winter 1979	Partial Implementation - facilities in some built up county areas need financing worked out.
Action A-4.1 - Monitor pollutants and buildup from use of reclaimed waters.	RWQCB, County sanitation dists., cities of Sonoma and Petaluma Public Works Depts.	Commence Summer 1979, ongoing	Partial Implementation - by RWQCB, not as much by local agencies
Action A-4.2 - Spray regulation.	EPA, State	Commence Fall 1979	Don't know
Action A-6.1 - Litter control ordinances	ABAG, SRQC, cities of Sonoma and Petaluma Pub. Wks. Depts., Sonoma Co. Depts. of Pub. Wks. and Environmental Health	Commence Summer 1978	No Implementation - depends on Action S-1.1, although ABAG's work may assist.
Action A-21.1 - Drainage ordinance	SRQC, Sonoma Co. Planning Dept., State Dept. of Fish and Game, RWQCB	Summer 1978	Future Implementation - now in preparation by county Planning Depts.

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Contra Costa County Surface Runoff Plan</u>			
Action A.1 - Encourage the county and cities to review sweeping schedules in densely populated and commercial areas to determine if a more efficient schedule can be devised.	County - Service Areas, Cities	FY 1979-1981	No Implementation - cities have cut back or stopped sweeping, and county has stopped
Action A.2 - Encourage agencies which contract street sweeping to review specifications for opportunities for greater efficiency. At the time equipment is replaced, agencies should consider the benefits of high efficiency sweepers, brushes and other devices. If training programs are offered, agencies should participate.	County - Service Areas	FY 1979-1981	No Implementation - same as previous action
Action A.3 - (Street repairs) - Maintain existing practices; include water quality benefits as a consideration in street repair guidelines.	County, special districts (Parks and Recreation, Roads), Cities	Ongoing through FY 1980 - 81	Partial Implementation - existing practices only
Action A.4 - (Control certain chemicals) - Include in regional public education program; reference solid waste plan.	Federal and State regulations; County Health Dept.; County Dept. of Agriculture	FY 1979-1981	No Implementation
Action A.5 - (Restrict auto parking) - Maintain existing practices where now practiced; expand program on voluntary basis to other swept areas.	County - Service Areas, Cities	FY 1979-1981	Partial Implementation - existing practices only
Action A.6 - (Control use of lots and streets) - Maintain existing levels of enforcement; consider stronger enforcement if a problem area develops.	County, Cities	Ongoing through FY 1980-1981	Completed/Ongoing - existing practices, no problem area reported
Action A.7 - (Control dumping) - Maintain present practices; increase enforcement where needed to highest practical level; reference Solid Waste Plan.	State, RWQCB, County, Cities, possible Water Districts, County Health Dept.	Ongoing through FY 1980-1981	Partial Implementation - existing practices only
Action A.8 - (Control littering and dog droppings) - Maintain present level of litter control; enforcement should be increased in areas in which it is perceived as a problem.	County, Cities	Ongoing through FY 1980-1981 for the first part, FY 1979-1981 for the second part	Completed/Ongoing - existing practices, no problem area reported

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Contra Costa County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action A.10 - (Control direct discharge of pollutants) - Maintain existing levels of enforcement.	County, cities, County Health Dept.	Ongoing through FY 1980-1981	Completed/Ongoing - existing practices
Action A.10 (cont'd) - (Control direct discharge of pollutants) - Encourage cities to increase enforcement in problem areas.	County, cities, County Health Dept.	FY 1979-1981	No Implementation
Action A.10 - (cont'd) - (Control direct discharge of pollutants) - Include in regional public education program.	County, cities, County Health Dept.	FY 1979-1981	No Implementation
Action A.10 - (cont'd) - (Control direct discharge of pollutants) - In areas where illegal dumping is perceived as a problem, adequate trash pick-up, recycling centers, or other options for legal and safe disposal should be developed.	County, cities, County Health Dept.	(-)	No Implementation
Action A.11 - (Clean storm water system) - Maintain present level of maintenance as funds permit.	County, cities	Ongoing through FY 1980-1981	Completed/Ongoing - present maintenance level
Action A.12 - (Replace cross connections of sewerage systems) - If cross connections are found to exist, this control should be considered as an alternative to constructing sewage treatment capacity, based on cost/benefit studies.	County, cities treatment district	FY 1980-1981	Completed/Ongoing
Action A.13 - (Insure proper operation of septic tanks and leach fields) - Continue present practice of setting moratoria in troubled areas by State and County Health Depts.	County	Ongoing through FY 1980-1981	Completed/Ongoing - existing practices
Action A.13 - (cont'd) - (Insure proper operation of septic tanks and leach fields) - If new construction techniques are developed, they should be considered for approval by the County Health Dept.	County	FY 1980-1981	Completed/Ongoing
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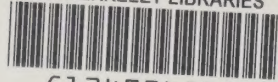
SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Contra Costa County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action C.3 - (Rechanel run-off to prevent flow over critical surfaces) - Recommended for inclusion on guidelines for project review; appropriate for future consideration on a case-by-case basis in local areas.	County, cities, RWQCB	FY 1980-1981	No Implementation
Action C.5 - (Remove debris in channels, pipes and inlet to improve flow) - Present practice to maintain flow characteristics.	State (State Highways), County, Cities	Ongoing through FY 1980 - 1981	Completed/Ongoing - present practices
Action C.6 - (Regrade disturbed areas) - Present practice on a limited scale. Appropriate for future consideration on a project by project basis.	State (State Highways), County, cities, Water and Park Districts	Ongoing through FY 1980-1981	Completed/Ongoing
Action C.7 - (Reseed or apply vegetative cover to bare slopes) - Existing practice. A project review guideline. EIR criterion. Appropriate for future consideration on a project or site basis.	State (State Highways & Parks), County, cities, Water and Parks Districts, other public entities that own property, RCD	Ongoing through FY 1980-1981	Future Implementation - depends on county 208 contract with ABAG
Action C.7 - (cont'd) - (Reseed or apply vegetative cover to bare slopes) - Encourage land owners and the RCD to work cooperatively together to prevent excessive soil losses.	State (State Highways and Parks), County, cities, Water and Parks Districts, other public entities that own property, RCD	FY 1980-1981	Future Implementation - same as previous action
Action C.8 - (Stabilize channels of rivers and streams) - Present practice on a limited scale. Included in EIR; Recommended for future consideration as a project design alternative.	Federal (Corps of Engineers), State (Reclamation District), County and cities (not common), Water and Parks District	First Part - Ongoing through FY 1980-81; Second Part - FY 1980-1981	Partial Implementation - present practices only
Action C.9 - (Control erosion at construction sites) - Existing practice to some extent; recommended for inclusion in project review conditions of approval; encourage agencies to review present practices to determine if better enforcement needed.	State (State Highways and Parks), County, cities, Special Districts	First and Second Parts - Ongoing through FY 1980-81; Third Part - FY 1980-1981	Future Implementation - depends on county 208 contract with ABAG

SUMMARY TABLE OF PLAN IMPLEMENTATION

ACTION	RESPONSIBLE AGENCY	SCHEDULE FOR ACTION	STATUS OF IMPLEMENTATION
<u>Contra Costa County</u> <u>Surface Runoff Plan (cont'd)</u>			
Action C.10 - (Regulate construction of activities in time or space) - Minimize soil exposed during rainy season.	State (Highways and Parks), County, Cities, Special Districts	FY 1980 -1981	Future Implementation - depends on county 208 contract with ABAG
Action C.11 - (Construct permanent berms for critical sources) - Present practice as required by RWQCB (feed-lot); present practice in heavy industrial areas; recommended as a new project review guideline with condition of project approval.	State, RWQCB, County, Cities	First and Second Parts - Ongoing through FY 1980-81; Third Part - FY 1980-81	Future Implementation - present practices only now; project review portion depends on county 208 contract with ABAG
Action C.12 - (Use energy dissipators to reduce potential erosion or transport of solids) - Present practice on a limited scale by county, possibly park districts.	County, cities, (possibly but rarely), special districts	Ongoing through FY 1980-1981	Completed/Ongoing - present practice
Action C.14 - (Require minimum of pervious surfaces for new construction) - Present practice established by county and city regulations for maximum allowable lot coverage, except in some commercial districts.	Ongoing through FY 1980-1981	County, Cities	Completed/Ongoing - present practice
Action D.2 - (Impound runoff in upstream channels) - Existing practice to a limited extent as an alternative to channelization.	County, cities (possibly but rarely)	Ongoing through FY 1980-1981	Completed/Ongoing - present practice
Action D.3 - (Construct off-line storage) Existing practice to some extent as an alternative to channelization.	County	Ongoing through FY 1980-81	Completed/Ongoing - present practice

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